



**Environmental  
Notification Form**

*For Office Use Only*  
*Executive Office of Environmental Affairs*

EOEA No.: *14293*  
MEPA Analyst: *Bill Gagne*  
Phone: 617-626-*1025*

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Bedrock Wellfield, Lynnfield Center Water District		
Street: Phillips Road		
Municipality: Lynnfield	Watershed: North Coastal Basin	
Universal Transverse Mercator Coordinates:	Latitude: 42° 32' 57" Longitude: 71° 3' 24"	
Estimated commencement date: 9/2008 (Design) 7/2009 (Construction)	Estimated completion date: 3/2010 (Construction)	
Approximate cost: \$2,700,000	Status of project design: Well Drilling- 100% complete; Facilities Design – 10% complete	
Proponent: Lynnfield Center Water District		
Street: 83 Phillips Road		
Municipality: Lynnfield	State: MA	Zip Code: 01940
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Elaine Sistare, P.E.		
Firm/Agency: Camp Dresser & McKee Inc.	Street: 56 Exchange Terrace, 4 <sup>th</sup> Floor	
Municipality: Providence	State: RI	Zip Code: 02903
Phone: 401-457-0311	Fax: 401-457-0311	E-mail: sistareec@cdm.com

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?  
 Yes  No
- Has this project been filed with MEPA before?  
 Yes (EOEA No. \_\_\_\_\_)  No
- Has any project on this site been filed with MEPA before?  
 Yes (EOEA No. \_\_\_\_\_)  No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8))  Yes  No
  - a Special Review Procedure? (see 301CMR 11.09)  Yes  No
  - a Waiver of mandatory EIR? (see 301 CMR 11.11)  Yes  No
  - a Phase I Waiver? (see 301 CMR 11.11)  Yes  No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): NONE

Are you requesting coordinated review with any other federal, state, regional, or local agency?  
 Yes (Specify \_\_\_\_\_)  No

List Local or Federal Permits and Approvals: The District expects to submit a Request for Determination to the Lynnfield Conservation Commission.

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- |   |                                       |  |
|---|---------------------------------------|--|
| <input type="checkbox"/> Land             | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands      |
| <input checked="" type="checkbox"/> Water | <input type="checkbox"/> Wastewater   | <input type="checkbox"/> Transportation                        |
| <input type="checkbox"/> Energy           | <input type="checkbox"/> Air          | <input type="checkbox"/> Solid & Hazardous Waste               |
| <input type="checkbox"/> ACEC             | <input type="checkbox"/> Regulations  | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
<b>LAND</b>				<input type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input checked="" type="checkbox"/> Water Management Act Permit <input checked="" type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input checked="" type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>  <b><u>-DEP Approval to Construct Source</u></b>
Total site acreage	104			
New acres of land altered		0.4		
Acres of impervious area	0.6	0	0.6	
Square feet of new bordering vegetated wetlands alteration		NONE		
Square feet of new other wetland alteration		NONE		
Acres of new non-water dependent use of tidelands or waterways		NONE		
<b>STRUCTURES</b>				
Gross square footage	4387	0	4387	
Number of housing units	N/A	N/A	N/A	
Maximum height (in feet)	20	0	20	
<b>TRANSPORTATION</b>				
Vehicle trips per day	N/A	N/A	N/A	
Parking spaces	N/A	N/A	N/A	
<b>WATER/WASTEWATER</b>				
Gallons/day (GPD) of water use	N/A	N/A	N/A	
GPD water withdrawal*	920,000 max from this parcel	310,000	1,230,000 max from this parcel	
GPD wastewater generation/treatment	N/A	N/A	N/A	
Length of water/sewer mains (in miles)	0.4	0.4	0.8	

\*The District's existing water supplies on this parcel include Well No. 9, Well No. 26 and the Phillips Road tubular wellfield, with respective approved yields of 130,000 gpd, 300,000 gpd and 490,000 gpd. Therefore, the total existing approved yield is 920,000 gpd. The "approved yield" refers to the maximum withdrawal allowed by DEP in one day.

The new wellfield is expected to have an approved yield of 610,000 gpd. However, since existing Well No. 26 (with 300,000 gpd approved yield) will be abandoned as part of the new wellfield project, the new total approved yield is 1,230,000 gpd. All of the supply sources described herein are located in the North Coastal Basin. Note that the Water Management Act limits on withdrawals are much lower than the approved yield figures.

**CONSERVATION LAND:** Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

Yes (Specify \_\_\_\_\_)  No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

Yes (Specify \_\_\_\_\_)  No

**RARE SPECIES:** Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify \_\_\_\_\_)  No

**HISTORICAL /ARCHAEOLOGICAL RESOURCES:** Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify \_\_\_\_\_)  No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify \_\_\_\_\_)  No

**AREAS OF CRITICAL ENVIRONMENTAL CONCERN:** Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify \_\_\_\_\_)  No

**PROJECT DESCRIPTION:** The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

The purpose of this project is the development of four new municipal water bedrock supply wells within the existing 104 acre Lynnfield Center Water District (the District) parcel, which includes Phillips Road Tubular Wellfield, Well No. 9 and Well No. 26, and a Greensand Filter Water Treatment Plant (WTP). The parcel includes multiple bordering parcels owned by the District, the majority of which are wooded/forest.

The DEP-approved yield from the four new wells is expected to be 610,000 gallons per day (gpd).

The District has assumed that this project requires filing an ENF per 301 CMR 11.03(b)1, which lists the following trigger: "new withdrawal or expansion of withdrawal of 100,000 or more gpd from a water source that requires new construction for withdrawal." It is expected that DEP's water withdrawal permit will add Bedrock Wells No. 6, 7, 9, and 10 as approved withdrawal points, but will not include a permitted volume beyond that already registered by the District. The District will request an increase in permitted withdrawal after the Water Demand Forecast has been completed by the Water Resources Commission (WRC). While the Water Demand Forecast has been submitted to the WRC, a heavy backlog exists, and the WRC expects to wait until 2009 to complete the Water Needs Forecast. The requested withdrawal permit volume is expected to be in the range of 0.05 to 0.25 gpd.

All four bedrock wells have already been drilled, as was required for mandatory testing under the DEP Source Approval process. The development of the bedrock wells to the water supply system will include the following:

- Approximately 1,900 linear feet (lf) of 8-inch diameter water main connecting Bedrock Wells No. 6, 7, 9 and 10 to existing 8-inch ductile iron (DI) transmission main near existing Well No. 9
- Approximately 1500 feet of 10 ft wide gravel roadway along the existing dirt road around the new bedrock wells
- Submersible pump and motor for each of the four new bedrock wells
- 8 ft high fencing with gate around each of the four new bedrock wells
- Overhead power lines to supply power to the new bedrock wells
- Additional greensand filter in the existing Greensand Filter WTP
- Rollup garage door in place of existing knockout panel in the existing WTP building
- New concrete pad and new emergency generator with adjacent 2,000 gallon propane tank
- The existing Well No. 26 will be abandoned as part of this project

A site plan is presented in Figure 1 of the DEP Source Final Report, included in Attachment A. In addition, Attachment B includes a Site Plan showing the expected construction. Although there are wetlands present on the District parcel, no wetlands will be altered by the project construction.

The wellfield site is located in central Lynnfield and is bordered to the south by land owned by the Town of Lynnfield Conservation Commission. Residential areas border on the north, west and east boundaries of the parcel. The USGS quadrangle location of the site is shown on Figure 5-1 of the DEP Source Final Report (see Attachment A).

Alternatives to the construction of this wellfield include (1) taking water from other sources in the Ipswich River Basin (not feasible, no new permits are being issued), (2) developing sand and gravel wells in the North Coastal Basin (not feasible because all such sources have already been developed), (3) purchasing water from another supplier (not feasible due to high cost from MWRA, and other suppliers do not have excess water to sell), (4) continued leak detection (District annually surveys; no significant leaks were found in recent years. The District's unaccounted for water has recently been about 10%.), (5) increased conservation and demand management (District continuously implements conservation measures, conservation efforts will not eliminate the need for the supply source) and (6) no action (this would likely result in a Water Management Act violation in the future, and therefore not acceptable).

DEP will include mitigation measures in the Water Management Act Permit, such as wetland monitoring, water conservation requirements, leak detection requirements, and outside water use restrictions.